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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/020,120	12/18/2001	Gianluca Giovanni Di Pasquale	027559-044	7370
27045	7590	09/28/2004	EXAMINER	
ERICSSON INC. 6300 LEGACY DRIVE M/S EVR C11 PLANO, TX 75024			CHO, UN C	
			ART UNIT	PAPER NUMBER
			2682	

DATE MAILED: 09/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/020,120	DI PASQUALE ET AL.	
	Examiner	Art Unit	
	Un C Cho	2682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4-11 and 15-22 is/are allowed.
- 6) ☒ Claim(s) 1,2,12 and 13 is/are rejected.
- 7) ☒ Claim(s) 3 and 14 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 December 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Drawings

1. Figure 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

2.

Specification

3. The disclosure is objected to because of the following informalities:

Page 9, line 13 recites, "... to use for a give system" it should be "...to use for a given system" instead.

Page 17, line 20 - 21 recites, "... the special adjustment is performed merely be setting ..." it should be "... the special adjustment is performed merely by setting ..." instead.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 2 and 12 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Pfundstein (US 5,375,251).

Regarding claim 1, Pfundstein teaches a method for determining a temporary mobile subscriber identity generation field value (GP-IX, generation parameter index) for use comprising: determining a minimum integer amount that is higher (incremented value of GP-IX) than temporary mobile subscriber identity generation field values (GP-IX value) associated with predetermined mobile subscribers (Col. 4, lines 3 – 7) and adjusting the temporary mobile subscriber identity generation field value (GP-IX value) as a function of the minimum integer amount (replace the previous GP-IX value with the newly incremented value of GP-IX, Col. 4, lines 7 – 13).

Regarding claim 2, Pfundstein teaches the step of determining the minimum integer amount that is higher (incremented value of GP-IX) than temporary mobile subscriber generation field value (GP-IX value) as a function of the minimum integer amount (incremented value of GP-IX) comprises setting the temporary mobile subscriber identity generation field value equal to the minimum

integer amount (replace the previous GP-IX value with the newly incremented GP-IX value, Col. 4, lines 7 – 13).

Regarding claim 12, the claim is interpreted and rejected for the same reason as set forth in claim 1.

Regarding claim 13, the claim is interpreted and rejected for the same reason as set forth in claim 2.

Allowable Subject Matter

6. Claims 3 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter:

Pfundstein teaches the step of determining the minimum integer amount that is higher than temporary mobile subscriber identity generation field values associated with the predetermined mobile subscribers (Col. 4, lines 1 – 13).

However, Pfundstein, Holmes, Monrad, Sawyer, Patel and Wan either alone or in combination fail to disclose determining a probability density as a function of temporary mobile subscriber identity generation value, integrating the probability density across an entire range of temporary mobile subscriber identity generation values to determine a total integral and determining the minimum integer amount such that an integral of the probability density from zero to the

minimum integer amount yields a smaller integral that is the predetermined percentage of the total integral.

8. Claims 4 – 11 and 15 – 22 are allowed.
9. The following is an examiner's statement of reasons for allowance:

Regarding claim 4, Pfundstein discloses a method of determining a TMSI for allocation to a mobile subscriber, wherein the TMSI comprises a TMSI identification field (TMSI-IX, Fig. 1, 17) and a TMSI generation field (GP-IX, Fig. 1, 14). However, Pfundstein, Holmes, Monrad, Sawyer, Patel and Wan either alone or combination fails to disclose selecting a free TMSI field value, determining a present TMSI generation field value associated with the selected TMSI identification field value, if the free TMSI identification field value has previously been allocated since a most recent restart operation, then performing a normal allocation adjustment to the present TMSI generation field value, thereby producing an adjusted TMSI generation field value, if the free TMSI identification field value has not previously been allocated since a most recent restart operation, the performing a special allocation adjustment to the present TMSI generation field value, thereby producing the adjusted TMSI generation field value, generating a complete TMSI from the selected TMSI identification value and the adjusted TMSI generation field value, allocating the complete TMSI identity to the mobile subscriber, in response to a first type of release causing event in which the mobile subscriber is informed that the TMSI is being released, processing the TMSI identification value so that it will be considered free, and

performing a normal de-allocation adjustment to the adjusted TMSI generation field value, and in response to a second type of release causing event in which the mobile subscriber is not informed that the TMSI is being released, processing the TMSI identification value so that it will be considered free, and leaving the adjusted TMSI generation field value unchanged, wherein the special allocation adjustment comprises changing the present TMSI generation field value as a function of a minimum integer amount that is higher than TMSI generation field values associated with a predetermined percentage of all mobile subscribers.

Regarding claim 15, the claim is allowed for the same reason as set forth in claim 4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Holmes (US 6,039,624) discloses a portion of the bits within an assigned TMSI number are encoded based upon a subscriber's group classifications.

Monrad et al. (6,208,628) discloses a method for providing a unique temporary international identification of a mobile station during establishment and re-establishment

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of a logical link between a mobile station and the associated serving GPRS support node.

Sawyer et al. (US 5,920,814) discloses a system and method of managing TMSI parameters in a radio telecommunications network having a first mobile switching center a second MSC and a mobile station operating initially in a service area of the first MSC.

Patel (US 6,463,154) discloses the method for managing the use of Temporary mobile identifiers.

Wan (US 6,680,920) discloses a power management system for a mobile station reduces standby mode processing by receiving and processing single time slots of a short paging channel.

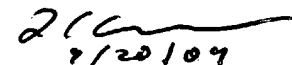
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Un C Cho whose telephone number is (703)305-8725. The examiner can normally be reached on M ~ F 8:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (703)308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Un C Cho UC 9/14/04
Examiner
Art Unit 2682


9/20/04
LESTER G. KINCAID
PRIMARY EXAMINER